

Figure 1. Composite direct covariance stress from seven recent ESRL cruises. The black line is the streamwise (along wind) component; the red line is the crossstream (stress across the mean wind). (a) Upper panel is for four stratus cruises in the vicinity of the WHOI buoy at 20 S 85 W. (b) lower panel is for three other ESRL cruises [RICO – tradewind Atlantic; TAO04 – equatorial E. Pacific; NEAQS – Atlantic coast off New Hampshire].

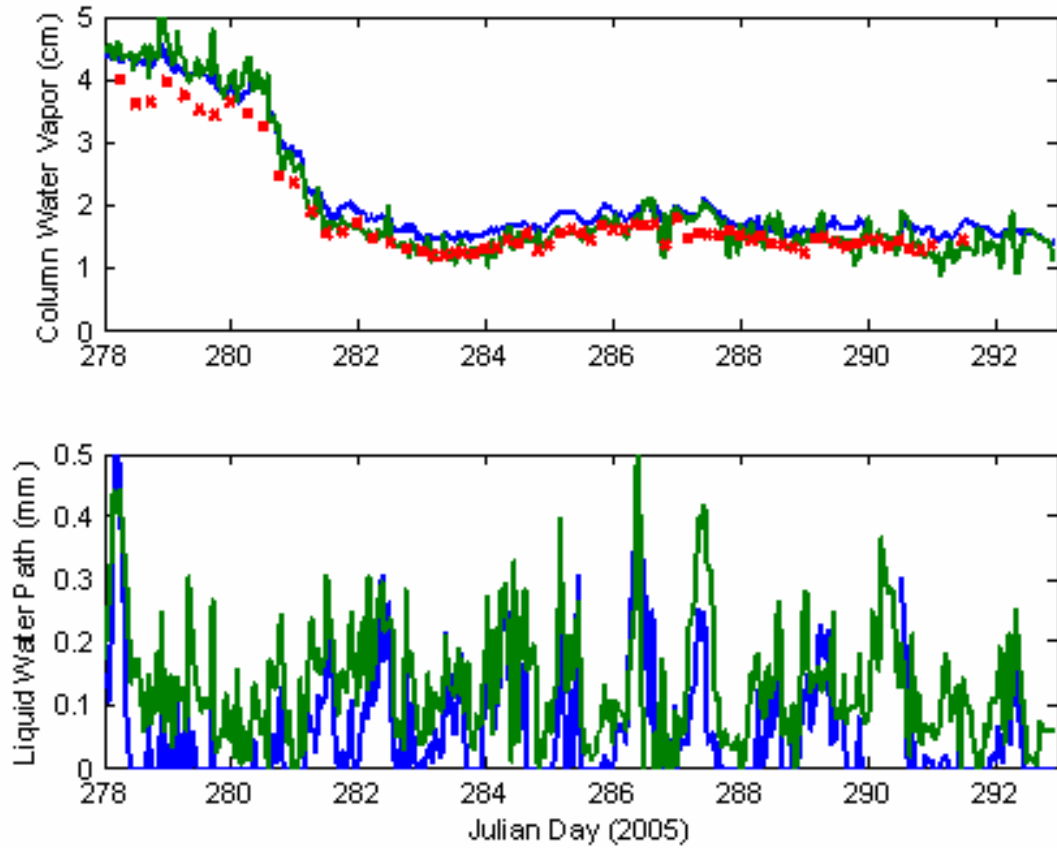


Figure 2. Time series of microwave radiometer-derived values for column integrated water vapor (upper panel) and column integrated liquid water (lower panel). Old mailbox=green, new mailbox=blue, and integrals from rawinsonde profiles=red x's (upper panel only).

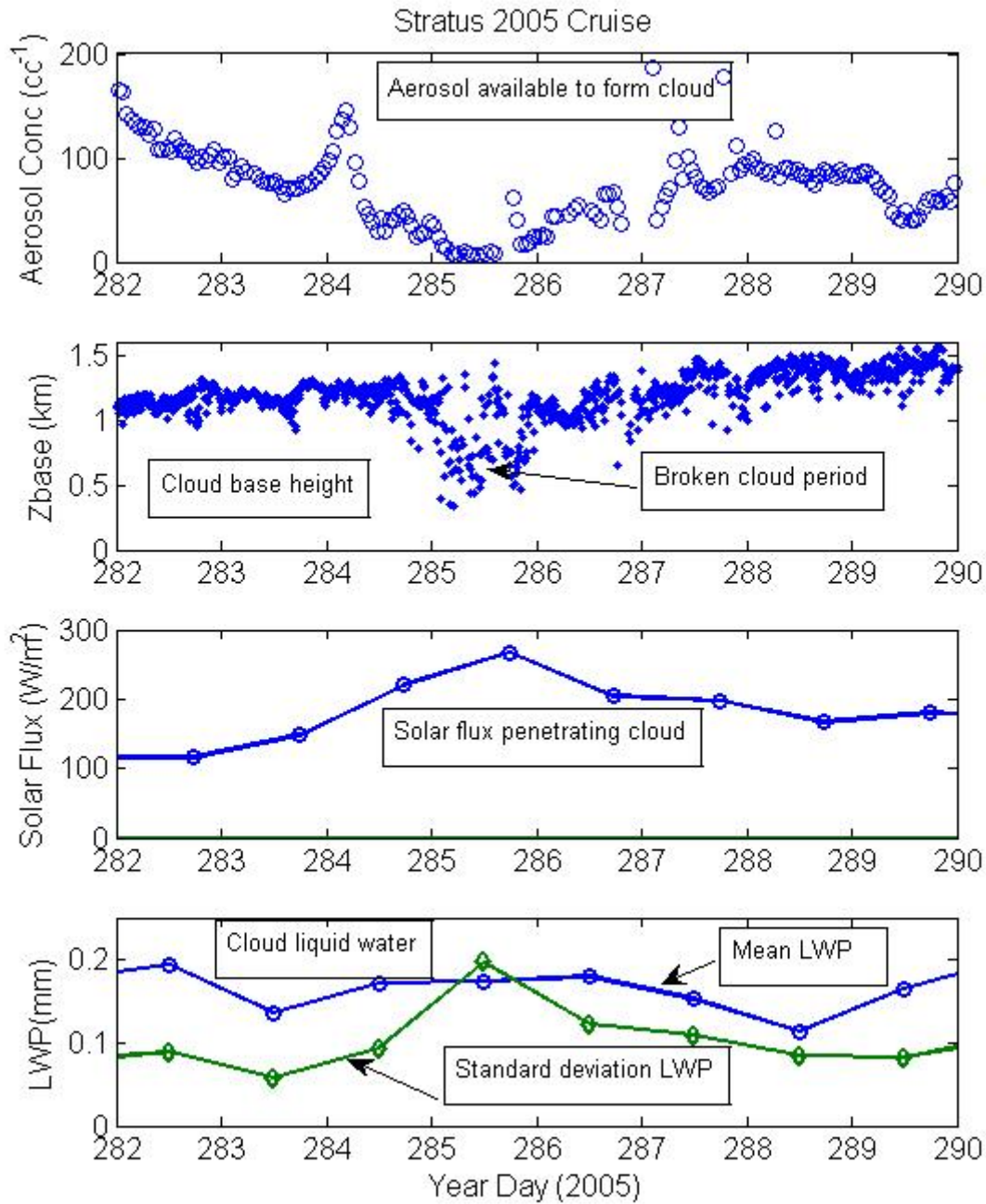


Figure 3. Observations of aerosol indirect effect on cloud transmission of solar flux. Time series of variables from eight days on the stratus-2005 cruise: (a) Total aerosol concentration for particles larger than $0.1 \mu\text{m}$. (b) Cloud base height (10-min resolution). (c) Daily-average net solar flux at the surface. (d) Daily-averaged liquid water path (LWP) in the clouds – mean (blue) and standard deviation (green).